JVC

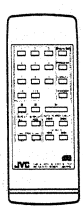
INSTRUCTIONS

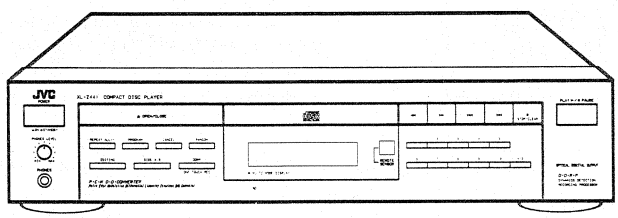
XL-Z441TN/XL-Z442BK

COMPACT DISC PLAYER

BEDIENUNGSANLEITUNG: KOMPAKTPLATTEN-SPIELER
MANUEL D'INSTRUCTIONS: LECTEUR DE DISQUE AUDIONUMERIQUE
GEBRUIKSAANWIJZING: KONPAKT DISK-PLAYER
MANUAL DE INSTRUCCION: TOCADISCOS COMPACTO
BRUKSANVISNING: CD-SPELARE

COMPACT disc DIGITAL AUDIO





(XL-Z441TN/XL-Z442BK)

COMPU LINK Remote Control Component

For Customer Use:

Enter below the Model No. and Serial No. which is located either on the rear, bottom or side of the cabinet. Retain this information for future reference.

Model No. _____

Serial No. _____

E30580-1686A

IMPORTANT (In the United Kingdom)
Mains Supply (AC 240V ~, 50 Hz only)

IMPORTANT

Do not make any connection to the Larger Terminal coded E or Green. The wires in the mains lead are coloured in accordance with the following code :

Blue to N(Neutral) or Black
Brown to L(Live) or Red

If these colours do not correspond with the terminal identifications of your plug, connect as follows:
Blue wire to terminal coded N(Neutral) or coloured Black.
Brown wire to terminal coded L(Live) or coloured Red.
If in doubt — consult a competent electrician.

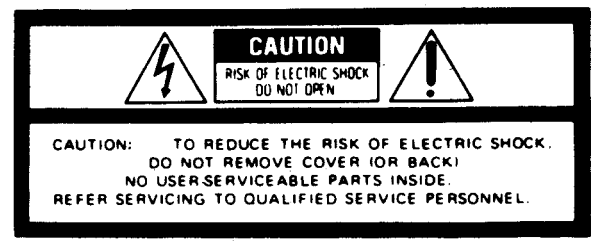
THIS UNIT IS PRODUCED TO COMPLY WITH DIRECTIVE 76/889/EEC.

DIESES GERÄT ENTSPRICHT EG-RICHTLINIE 87/308/EWG.

CET APPAREIL A ETE FABRIQUE POUR ETRE CONFORME A LA DIRECTIVE CEE NUMERO 87/308/CEE.

DENNA APPARAT ÄR TILLVERKD SÅ ATT DIREKTIVEN 87/308/EEC UPPFYLLS.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK)
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

INFORMATION (For U.S.A.)

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient the receiving antenna.
Relocate this equipment with respect to the receiver.
Move this equipment away from the receiver.
Plug this equipment into a different outlet so that this equipment and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

"How to Identify and Resolve Radio-TV Interference Problems". This booklet is available from the US Government Printing Office, Washington, D.C. 20402, Stock No.004-000-00345-4

CAUTION

To reduce the risk of electrical shocks, fire, etc.:
1. Do not remove screws, covers or cabinet.
2. Do not expose this appliance to rain or moisture.

ACHTUNG

Zur Verhinderung von elektrischen Schlägen, Brandgefahr, usw.:
1. Keine Schrauben lösen oder Abdecklungen entfernen und nicht das Gehäuse öffnen.
2. Dieses Gerät weder Regen noch Feuchtigkeit aussetzen.

ATTENTION

Afin d'éviter tout risque d'électrocution, d'incendie, etc.:
1. Ne pas enlever les vis ni les panneaux et ne pas ouvrir le coffret de l'appareil.
2. Ne pas exposer l'appareil à la pluie ni à l'humidité.

VOORZICHTIG

Ter vermindering van gevaar voor brand, elektrische schokken, enz.:
1. Verwijder geen schroeven, panelen of de behuizing.
2. Stel dit toestel niet bloot aan regen of vocht.

PRECAUCION

Para reducir riesgos de choques eléctricos, incendio, etc.:
1. No extraiga los tornillos, los cubiertas ni la caja.
2. No exponga este aparato a la lluvia o a la humedad.

VARNING

Elektriska stötar och överslag i apparaten kan elimineras genom följande:
1. Ta inte bort skruvar, lock eller ytterhölje från apparaten.
2. Utsätt inte apparaten för regn eller fukt.

INFORMATION (FOR CANADA)
RENSEIGNEMENT (POUR CANADA)

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the radio interference regulations of the Canadian Department of Communications.

L'interférence radioélectrique générée par cet appareil numérique de Type B ne dépasse pas les limites énonceés dans le réglement sur les perturbations radioélectriques, section appareil numérique, du Ministére des Communications.

BEMAERK: I stilling OFF er apparatet stadig forbundet med lysnettet. Hvis det ønskes fuldstændig afbrudt skal netledningen trækkes ud.

VARNING
Strömställaren POWER är sekundärt koppiad och skiljer inte apparaten från nätet i läge STAND BY. För att apparaten skall skiljas från nätet skall nätsladden dras ur från vägguttaget.

IMPORTANT FOR LASER PRODUCTS

REPRODUCTION OF LABELS

① CLASSIFICATION LABEL, PLACED ON REAR ENCLOSURE
(Except for the U.S.A. and Canada)

CLASS 1
LASER PRODUCT

② WARNING LABEL, PLACED INSIDE THE UNIT
(Except for the U.S.A)

DANGER: Invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)

VARNING: Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen. (s)

ADVARSEL: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling. (d)

VARO: Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen. (f)

KLASS 1 LASER APPARAT
VARNING: Om apparaten används på annat sätt än i denna bruksanvisning specificerats, kan användaren utsättas för osynlig laser strålning, som överskrider gränsen för laserklass 1.

LUOKAN 1 LASERLAITE
VAROITUS: Laitteen käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

ADVARSEL: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

ADVARSEL: Usynlig laserstråling ved åpning når sikkerhetsbryteren er avslott. Unngå utsettelse for stråling.

1. CLASS 1 LASER PRODUCT
2. **DANGER:** Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.

1. KLAS 1 LASERPRODUCT
2. **GEVAARLIJK:** Onzichtbaare laserstraling wanneer open en het interlock faalt of uitgeschakeld is. Voorkom het direct blootstaan aan de straal.
3. **VOORZICHTIG:** De bovenkap niet openen. Binnenin het toestel bevinden zich geen door de gebruiker te repareren onderdelen: laat onderhoud over aan bekwaam vakpersoneel.

1. LASER-PRODUKT DER KLASSE 1.
2. **GEFAHR:** Unsichtbare Laserstrahlung bei Öffnung und fehlerhafter oder beschädigter Spre. Direkten Kontakt mit dem Strahl vermeiden!
3. **ACHTUNG:** Das Gehäuse nicht öffnen. Das Gerät enthält keinerlei Teile, die vom Benutzer gewartet werden können. Überlassen Sie Wartungsabeiten bitte qualifizierten Kundendienst-Fachleuten.

1. PRODUCTO LASER CLASE 1
2. **PELIGRO:** En el interior hay radiación laser invisible. Evite el contacto directo con el haz.
3. **PRECAUCION:** No abra la tapa superjor. En el interior de la unidad no existen piezas reparables por el usuario; deje todo servicio técnico en manos de personal calificado.

1. PRODUIT LASER CLASSE 1
2. **ATTENTION:** Radiation laser invisible quand l'appareil est ouvert ou que le verrouillage est en panne ou désactivé. Eviter une exposition directe au rayon.
3. **ATTENTION:** Ne pas ouvrir le couvercle du dessus. Il n'y a aucune pièce utilisable à l'intérier. Laisser à un personnel qualifié le soin de réparer votre appareil.

1. LASERPRODUKT KLASS 1
2. **VARNING:** Osynlig laserstrålning uppstår när apparaten öppnas. Undvik direkt exponering av strålen.
3. **OBSERVERA:** Öppna inte locket. Apparaten innehåller inga delar lämpliga för egen service. Överlåt all service till kvalificerad servicepersonal.

On the back fold-out page of this page are illustrations of the front panel, the MULTI MODE DISPLAY.
Please see reverse side of this fold-out page when you read the instructions corresponding by number.

Auf der Umschlaginnenseite dieser Seite befinden sich die Abbildungen der Vorderseite, des MULTI MODE DISPLAY des Geräts und der Fernbedienungseinheit.
Die Nummern hier auf diesem Faltumschalg beziehen sich auf die Nummern in dieser Bedienungsanleitung.

Au verso de cette page se trouvent les illustrations de la face avant, de l'affichage à fonctions multiples (MULTI MODE DISPLAY) et de la télécommande de l'appareil.
Lors de la lecture des instructions correspondantes, déployer cette page.

Op de binnenkant van de omslag staan illustraties van het voorpaneel, de MULTI MODE DISPLAY en de afstandsbediening.
Raadpleeg de achterkant van de binnenkant van deze omslag bij het lezen van de aanwijzingen overeenstemmend met de nummers.

En el reverso de esta parte plegada de la tapa se encuentran las ilustraciones del panel frontal, del visualizador de funciones múltiples (MULTI MODE DISPLAY), y unidad de mando a distancia.
Por favor vea el reverso de esta parte plegada de la tapa cuando lea las instrucciones, en cuanto a los números correspondientes.

Nästa sida innehåller illustrationer över denna apparats framsida, multifunktions display (MULTI MODE DISPLAY) samt fjärrkontrollen.
Håll denna sida uppslagen när du läser bruksanvisningen.

FRONT PANEL
VORDERSEITE
FACE AVANT
VOORPANEEL
PANEL FRONTAL
FAMSIDA

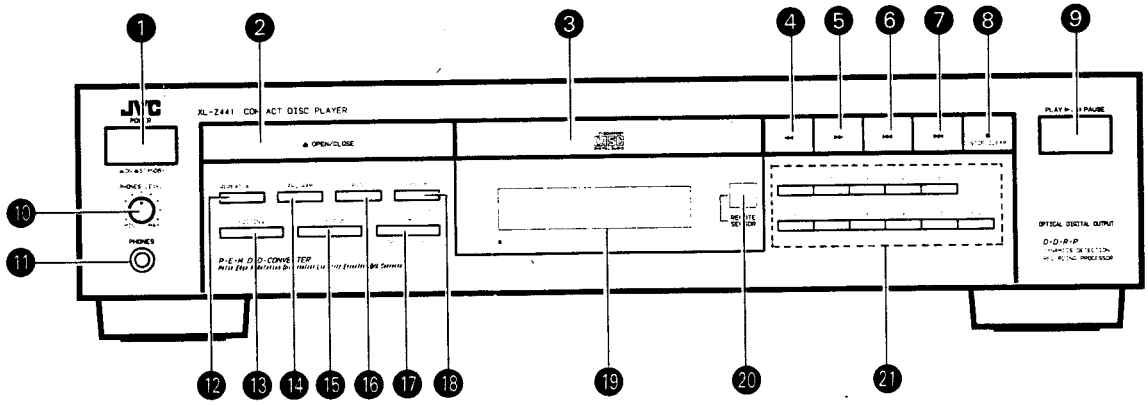


Fig. 1
Abb. 1
Afb. 1

DISPLAY
ANZIGE
AFFICHAGE
DISPLAY
VISUALIZACIÓN
TECKENFÖNSTER

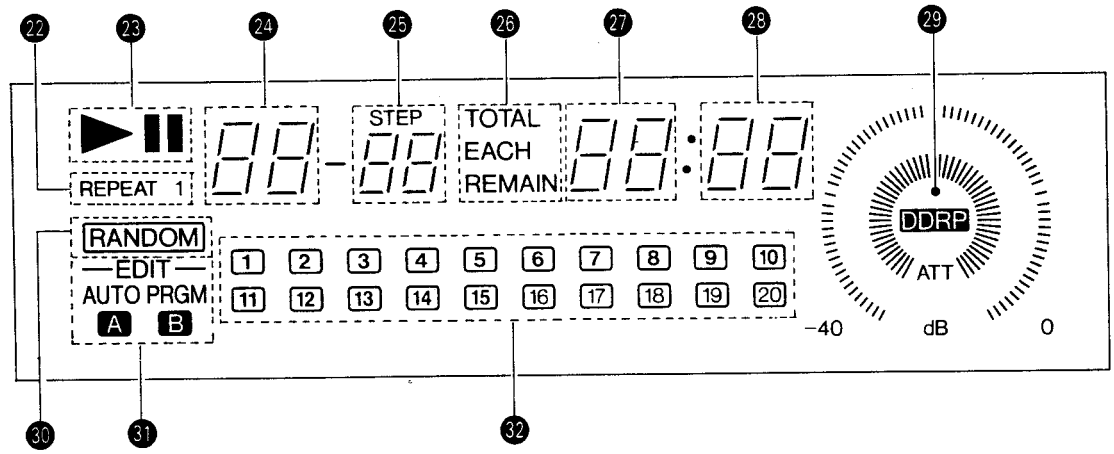


Fig. 2
Abb. 2
Afb. 2

REMOTE CONTROL UNIT
FERNBEDIENUNGSGERÄT
TELECOMMANDE
AFSTANDSBEDIENING
UNIDAD DE CONTROL REMOTO
FJÄRRKONTROLL

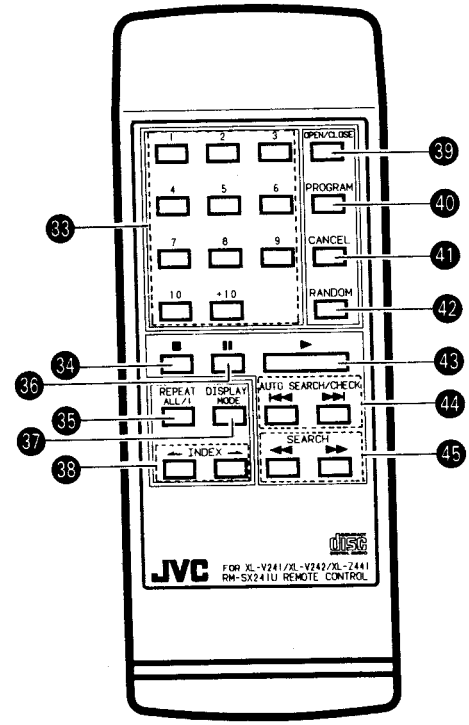


Fig. 3
Abb. 3
Afb. 3

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Thank you for purchasing this JVC product. Before you begin operating this unit, please read the instructions carefully to be sure you get the best possible performance.
If you have any question, consult your JVC dealer.

COMPU LINK
//// Remote ////
Control System

COMPU LINK (remote) Control System is a convenient system using COMPU LINK-1/SYNCHRO terminals on the rear panel. For further details, refer to page 6.

D•D•R•P

DYNAMICS DETECTION RECORDING PROCESSOR

This product can be combined with a DDRP (Dynamic Detection Recording Processor) system (compact disc player + cassette deck, etc.) to enable setting the optimum recording level automatically.
Please refer to these instructions for details.

- **XL-Z441TN has the same function as the XL-Z442BK except for their appearances in color.**

PRECAUTION IN USE

Installation
— Select a location which is level, dry, and **Neither too cold nor too hot (between 5°C (41°F) and 35°C (95°F)).**
— Avoid a dusty location or a location subject to vibrations.

Power
— When unplugging from the wall outlet, always pull on the plug, not on the power cord.

Malfunctions, etc.
— Do not insert any metallic object into the player.
— The discs to be played on this player are limited to those bearing the mark below (Fig. 4).
— Placing anything other than a compact disc on the platter may cause the player to malfunction.
— If something goes wrong, turn the power off immediately. If the same phenomenon occurs when the power is turned on again, turn the power off and consult your JVC dealer.

Volume setting
As a compact disc causes almost no noise, it is difficult to set the volume level by listening to noise as in the case of an ordinary analog turntable or a tape deck. If the volume level is raised too much because the beginning of the selection is quiet, the speakers may be damaged by a sudden increase in the sound level.

Condensation
As the compact disc player uses optical parts, moving it from a cold to a warm place or using it in a room subject to excessive humidity or in a room where a fire has just been lit may cause condensation on the optical parts. This phenomenon may prevent the light from being correctly transmitted, and may cause noise or malfunction.
If dew condenses and the player does not function correctly, leave it on for several hours with the power turned on.
If the player does not function even after such a period, consult your dealer.

Note:
- **When this unit is placed near a tuner or a receiver, noise may occur. If this happens, move this unit as far away from the tuner or the receiver as possible, or briefly turn off the power of this unit.**

COMPACT
disc
DIGITAL AUDIO

Fig. 4

HOW TO HANDLE A COMPACT DISC

Since compact discs are made of plastic, they can be easily damaged; if the disc gets dirty, dusty, damaged or warped, the sound will not be picked up correctly, and such discs may cause the player to malfunction. When handling compact disc, use the following precautions.

- Do not touch the surface of the disc (reflective silver iè. the side without the label) when handling the discs.
- **Storage**
  Make sure to keep discs in their cases. If discs are piled on top of one another without cases, they can be damaged. Do not put discs in a location exposed to direct sunlight or in a place with high temperature and humidity.
  Avoid leaving discs in your car.
- **Maintenance of discs (Fig. 5)**
  When fingerprints and dirt adhere to a disc, wipe the disc off with a soft, dry cloth from the inside towards the outside. If it is difficult to clean, wipe the disc with a cloth moistened with water.
- Do not use record cleaners, benzine, alcohol or antistatic agent.
- Do not damage the label side or stick paper or adhesive to the surface.
- In the case of an 8 cm (3″) single CD, place it in the disc hold, for an 8 cm (3″) disc, within the platter.

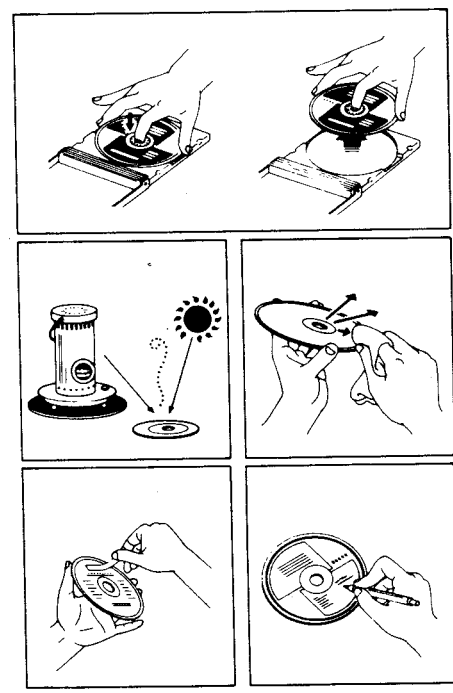


Fig. 5

COMPU LINK CONTROL SYSTEM

This is a convenient system which was originated and developed by JVC. The following is a brief explanation of its major points.

Automatic Source Selection
When the provided remote cables are used for connecting this unit to other components which have COMPU LINK-1/SYNCHRO terminals, the switch-over of all system components is possible with simple one-touch of the source selector button of the JVC amplifier or receiver. By doing this, the corresponding component will start playing automatically. The source select button of the remote control unit or the select button of the desired component can also be used for this purpose.
When the components have been switched over, the previously used component will stop playing within five seconds.

Synchronized Recording
If a cassette deck with COMPU LINK-1/ SYNCHRO terminals is connected with the remote cable supplied, synchro recording becomes possible.
Synchronized recording refers to the process in which the cassette deck starts recording in synchronism with the CD player. Perform the synchronized recording as follows.

1. Set the cassette deck to the REC/PAUSE mode in accordance with the procedures in the instructions.
2. If you want programmed recordings, program the desired selections in any order you wish to hear them.
3. Press the [PLAY ▶ / ⏸ PAUSE] button of the CD player. By so doing, the cassette deck is placed in the record mode and synchronized with the CD player for recording. Synchronized recording thus can be made possible.

Notes:
- Synchronized recording stops automatically when the CD player stops playing.
- To cancel synchronized recording, press the [STOP/CLEAR (■)] button of the CD player or cassette deck.

CAUTION:
- **When the REC/PAUSE mode is set by pressing [PAUSE (⏸)] button after pressing the [REC (○)] and [PLAY (▶)] buttons simultaneously, synchronized recording is not possible. For details, refer to the instructions of the cassette deck.**
- **Abnormal operation will result if the power supply of the component(s) is interrupted. If this happens, you must start all over again.**
- **Ensure that the COMPU LINK-1/ SYNCHRO terminals of the individual components are connected with the provided remote cables. Also be sure to fully read the instructions for each component.**

ENGLISH

DDRP (Dynamic Detection Recording Processor)

The Dynamics Detection Recording Processor (DDRP) detects the peak level of the music being performed and outputs the optimum recording level.
When the [DDRP] button is pressed, the DDRP indicator starts to flash, the letters "ddrp" run along the display and the volume is reset to the maximum value. Each time a new peak level is detected during peak search mode, the PHONES OUTPUT LEVEL setting is reduced and the optimum level is set. The time taken for peak search varies with the total performance time of the music being scanned, but is around two minutes for a 40 minute performance time.

DDRP Recording
The combination of the DDRP function and synchro recording makes recording on tape cassette very easy. There are two recording methods - according to which type of cassette deck is being used.

1. In combination with a DDRP compatible JVC cassette deck :
   Peak search is initiated by pressing the [DDRP] button. As soon as the peak search is terminated, recording starts.
   The cassette deck should be operated in accordance with the instructions supplied with it.
2. In combination with any JVC cassette deck not DDRP-compatible :
   Where connection is made to a cassette deck not DDRP-compatible, via the synchro terminals, pressing the [DDRP] button will start the recording process.
   In this case, the cassette deck input level will not be automatically set.
   Where a none DDRP-compatible cassette deck is used, a preliminary recording should be made in order to ascertain ideal input levels - the input level being then set up in accordance with the instructions for the cassette deck. If the input-level knob is subsequently reset to the same position, this enables recording at the optimum level to be done, without resetting every time.

DDRP Cancel
Press the [OPEN/CLOSE (⏏)] button to cancel DDRP mode.

Note
- Automatic recording level setting cannot work properly if the DIGITAL OUT terminals are in use.
- The graphic equalizer should not be used during DDRP recording. Using this facility will disturb the optimum recording level setting just found by the DDRP.
- Please do not turn off the power to the CD player while the DDRP mode is active. If this should be turned off by accident then the cassette deck should also be switched off for a few seconds in order to clear the DDRP recording mode from the cassette deck.
- When the cassette deck is connected via the synchro terminals, it is set in recording mode when DDRP is pressed. Take care, therefore, not to erase a tape by mistake.

Supplementary Notes
- *Whenever any addition or cancellation is made to the music tracks programme, the DDRP mode is cancelled.*
- *DDRP recording is automatically stopped when the CD player stops.*

BEFORE USE

Set the voltage selector to your local line voltage. (Fig. 6)
When this equipment is used in an area where the supply voltage is different from the preset voltage. reset the voltage selector to the correct position.
(Not provided on units for U.S.A., Canada, Australia, U.K. and Continental Europe.)

CHECKING YOUR LINE VOLTAGE (Except for U.S.A., Canada, Australia, U.K. and Continental Europe.)
Before inserting the power plug, please check this setting to see that it corresponds with the line voltage in your area. If it doesn't be sure to adjust the voltage selector switch to the proper setting before operating this equipment. The voltage selector switch is located on the rear panel.

CAUTION:
- Before setting the "Voltage selector switch" to proper voltage disconnect the power plug.

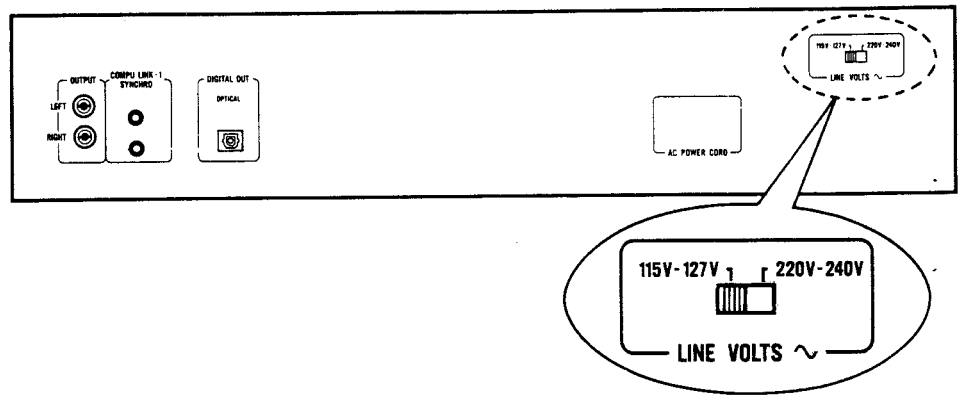


Fig. 6

HOW TO INSTALL THE BATTERIES

The service life of the batteries depends on the condition of use; the standard life is about one year.
When the batteries become weak, the effective distance of the remote control unit will become shorter. If this happens, replace the batteries with new ones.

- **How to install batteries**

1. Remove the rear cover of the remote control unit by pressing down on it with your thumb and simultaneously pulling it back-wards, as shown in Fig. 7.

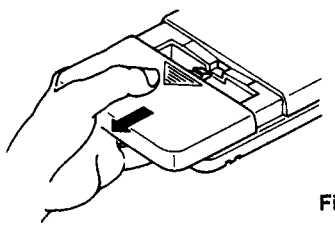


Fig. 7

2. Install batteries (AAA, R03 UM-4) as shown in Fig. 8.
Be sure batteries are installed with correct polarity, (+) and (−).

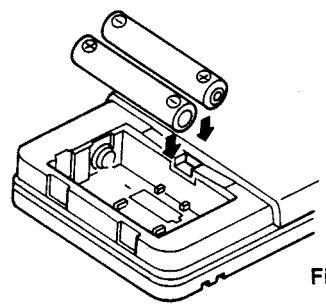


Fig. 8

3. Reinstall the rear cover of the remote control unit. Slide the rear cover back as shown in Fig. 9.

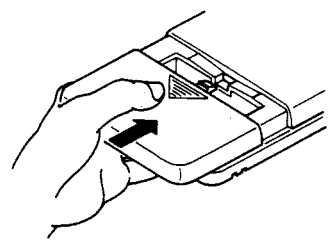


Fig. 9

Notes:
- **The lower the temperature, the shorter the battery life.**
- **Battery replacement**

- **Batteries**

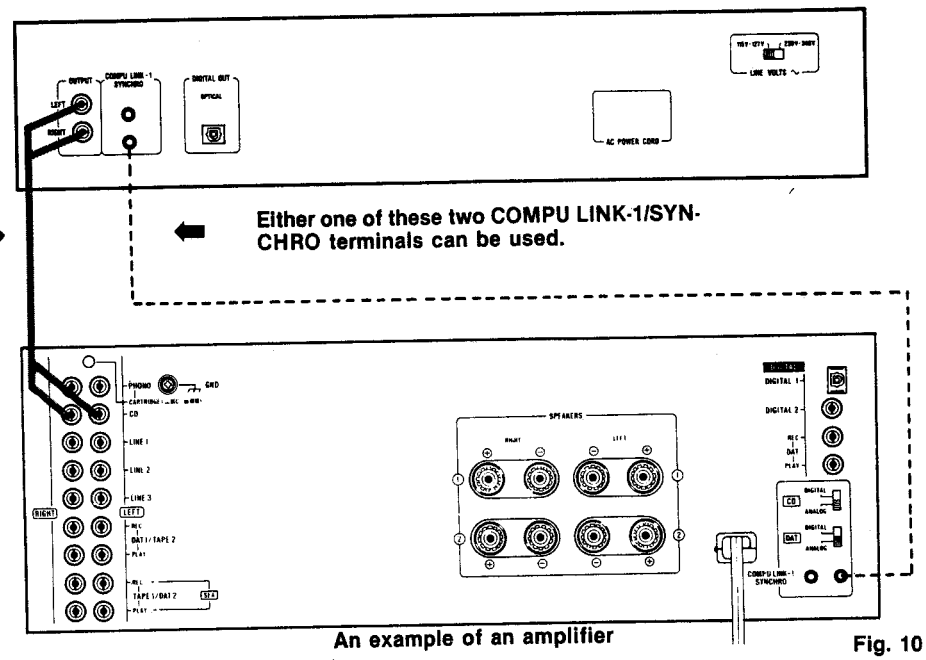
Incorrect use of batteries can cause corrosion or damage. Note the following points to lengthen battery life.
1. Install batteries observing the correct polarity, (+) and (−).
2. Do not use new and old batteries simultaneously.
3. Batteries with similar shapes may have different voltage ratings. Be sure to use the correct batteries.
4. Remove batteries from the remote control until if it will not be used for a long period of time.

CONNECTION DIAGRAM

- Do not connect the power plug unless all the connection is completed.
- Connect the audio plugs firmly.
- The synchronized recording is only possible with JVC products which have the COMPU LINK-1/SYNCHRO terminals. To carry out synchronized recording, connect to the amplifier's CD terminal. For further details, consult your JVC dealer.
- Automatic recording level setting cannot work properly if the DIGITAL OUT terminals are in use.
- The AC power cord is supplied separately and must be connected to the unit before use.

Connecting to the Analog Output Terminals

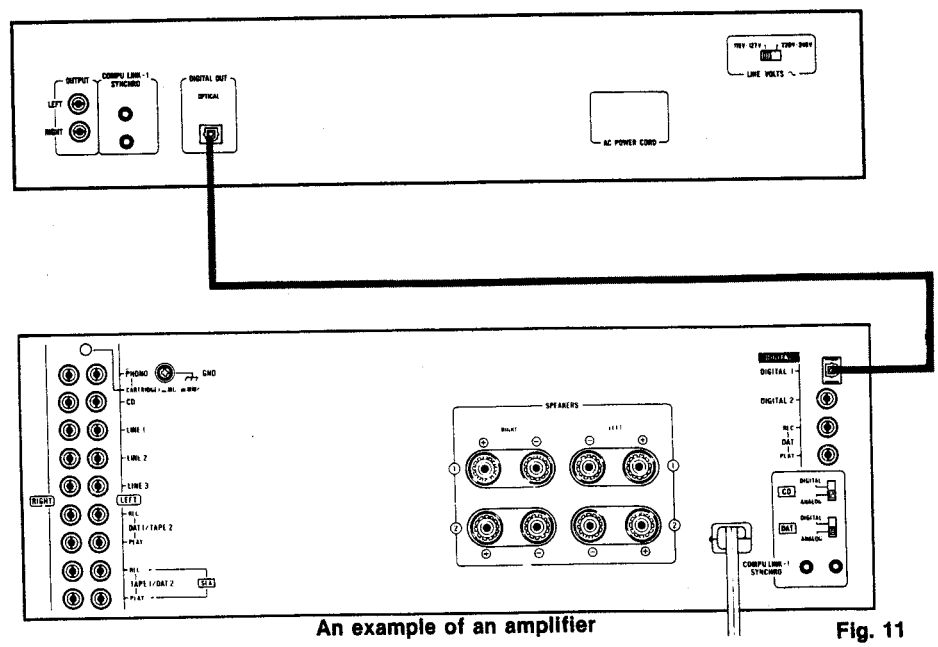
This cord is designed to connect the DAD, CD, or AUX terminals. Do not connect this cord to the PHONO terminals of the amplifier.



An example of an amplifier

Fig. 10

Connecting to the Digital Output Terminals



An example of an amplifier

Fig. 11

Notes:

- The COMPU LINK Control System will not work unless, as well as the special remote cable, a signal cord for analogue input/output is also connected.
- Never connect the digital output cable except to the digital input terminal.

DESCRIPTION AND FUNCTIONS

❶ **POWER (ON STANDBY)**
Press to turn on the power, the display will light. Press again to turn the power off. The display will go off.
A small amount of power (2 watts) is consumed in the standby mode. To turn the power off completely, disconnect the power cord from the wall outlet.

❷ **OPEN/CLOSE (⏏)**
Press to move the disc platter in and out. Press once and the disc platter will move out; now you can load a disc. Press again to move the platter back in. The disc is now ready to be played.
If it is pressed during play, play will be interrupted. And the program will be erased from memory and the disc platter will come out.

❸ **Disc Platter**
Load the disc to be played.

❹ **(◀◀)**
When this button is pressed during play or pause mode, the CD player will begin to scan backwards. In such a case, when the button is kept pressed, the CD player will backward-search slowly for about 3 seconds, and then go into a higher speed search.

❺ **(▶▶)**
When this button is pressed during play or pause mode, the CD player will begin to scan forward. In such a case, when the button is kept pressed, the CD player will forward-search slowly for about 3 seconds and then go into a higher speed search.

❻ **(⏮)**
Press this button to locate the start of the current selection or to go back to the previous selection during play. Play will go back one selection each time the button is pushed. If the button is held down, play will continue to go back one selection at a time until the button is released.

❼ **(⏭)**
Press to go to the start of the next selection. Every time this button is pressed, the pickup goes forward by one selecion. Holding the button down moves the pickup forward continuously.

❽ **STOP/CLEAR (■)**
Press to stop play. A few seconds after the disc has stopped rotating, the player goes into the standby mode with the track number "1" shown in the display window. The player is then ready to play.

❾ **PLAY ▶ / ⏸ PAUSE**
Press to start play. If the disc platter is out, press this button, and the disc platter will then move in and play will start (without pressing the [OPEN/CLOSE (⏏)] button.)
Press this button again to suspend play temporarily. The optical pickup stops and the disc continues to rotate. This status is called the pause mode.

❿ **PHONES LEVEL**
Adjust the volume of the headphones.

Note:
- **When listening to music by the headphones, be careful not to abuse your ears by setting the volume too high. Adjust the volume properly to obtain ear-pleasing listening.**

⓫ **PHONES**
Insert the headphones plug into this jack.

⓬ **REPEAT ALL/1**
Press this button to play one selection, all the selections or the programmed selections of the disc repeatedly.
When desiring all the selections, press the button once. "ALL" and "REPEAT" will be lit in the display window. When desiring one selection, press the button once again. "1" and "REPEAT" will be lit in the display window. To release this repeat play, press the [REPEAT ALL/1] button again.

⓭ **EDITING**
When editing the disc data in the cassette tape, the time interval can be established in advance in accordance with the tape length. When this button is pressed, "EDIT" appears in the display window.

⓮ **PROGRAM**
To program the sequence of the selections to be played, press this button while the CD player is in the standby mode. The PROGRAM indicator lights and up to 32 selections can be programmed.

⓯ **SIDE A/B**
Use this button to designate the tape side when programming for edit recording.

⓰ **CANCEL**
Press this button to cancel a programmed tune, Each time it is pressed, one tune is cancelled.

⓱ **DDRP**
Press for DDRP recording. If the player is connected to a DDRP system compatible cassette deck, when this button is pressed, the optimum recording level is automatically set and recording is started.

⓲ **RANDOM**
When this button is pressed, the CD player will be ready for random play.

⓳ **Display Window (MULTI MODE DISPLAY)**
This shows the total number of selections on the disc, the total playing time, the elapsed playing time, the remaining playing time, various program data, etc.

⓴ **REMOTE SENSOR**

㉑ **10 key operating buttons**
To designate the desired track numbers or establish the time interval during the tape editing, use these buttons. If the desired number is 10 or less, use the [1]~[10] buttons. However, to assign a track number greater than 10, use the [+10] button and the [1]~[10] buttons.

Examples
- To assign the 25th track, press the [+10] button twice then press the [5] button.
- To assign the 30 minutes, press [+10] button twice then press the [10] button.

DISPLAY

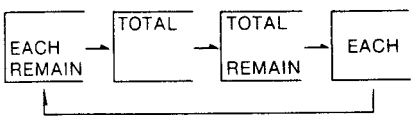
㉒ **REPEAT**
Lights when the repeat play is ready.
REPEAT : Lights when the repeat play of all the selections is entered.
REPEAT 1: Lights when the repeat play of only one selection is entered.

㉓ **PLAY/PAUSE indicators**
▶ : Lights during play.
II : Lights in the pause mode.

㉔ **TRACK**
Lights when all the selections of the disc are shown.
Shows the programmed selection numbers or the current selection number of the disc during programmed play.

㉕ **STEP**
Shows the numbers of memory steps of the programmed selections.

㉖ **TOTAL/EACH/REMAIN**
Each time the [DISPLAY MODE] button on the remote control unit is pressed, the indication changes in the following order.



EACH : Shows elapsed time of each selection.
EACH REMAIN : Shows the remaining playing time of each selection. (Up to 31st selection can be displayed.)
TOTAL : Shows the elapsed playing time of the disc or the programmed selections.
TOTAL REMAIN : Shows the remaining playing time of the disc or the programmed selections. (Up to 31st selection can be displayed.)

㉗ **Time indicator (MINUTE)**
Shows the total playing time, elapsed playing time, or remaining playing time in minutes.

㉘ **Time indicator (SECOND)**
Shows the total playing time, elapsed playing time, or the remaining playing time in seconds.

㉙ **DDRP indicators**
DDRP: Blinks during DDRP operation and lights steadily during DDRP recording.
ATT: Indicates the output level from the CD player during DDRP operation.
dB: Indicates the sound volume level during playback and during DDRP operation.

㉚ **RANDOM**
Lights in RANDOM MODE.

㉛ **EDIT**
Lights during editing recording.
[EDIT AUTO]: Lights during Auto Edit Recording.
[EDIT PRGM]: Lights during Program Edit Recording.
[A] : Lights when the A side of the tape is designated.
[B] : Lights when the B side of the tape is designated.

㉜ **Program Chart**
This chart indicates the number of each selection on the disc.
When a selection is programmed, the selection number lights.

REMOTE CONTROL UNIT

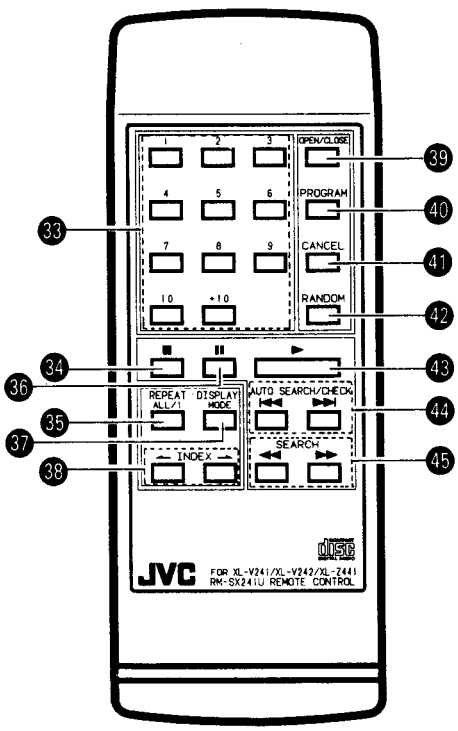


Fig. 12

The remote control range is approximately 7 meters (23 ft.).
Pointing the remote control on an angle to the receiver, will reduce the useful distance of the remote control.
Use gentle but firm pressure when pressing the remote control buttons.

If you can not do remote control, the disc platter sliding out, the REMOTE SENSOR might be behinde the disc platter. So operate as below.

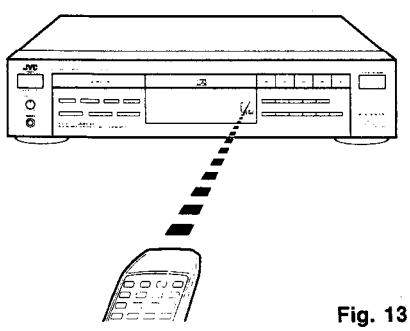


Fig. 13

Notes:

- **The provided remote control unit (RM-SX241U) has operating buttons which are basically identical with those of the CD player. The differences are the following buttons which are not on the CD player.**
- **[STOP/CLEAR (■)] button on the remote control unit cannot cancel the programmed selections.**

32 10 key operating buttons
To designate the desired track numbers or establish the time interval during the tape editing, use these buttons. If the desired number is 10 or less, use the [1]~[10] buttons. However, to assign a track number greater than 10, use the [+10] button and the [1]~[10] buttons.

Example
- To assign the 25th track, press the [+10] button twice then press the [5] button.

34 STOP/CLEAR (■)
Press to stop play. However, this does not clear the program or the program edit recording.

36 REPEAT ALL/1
Press this button to play one selection, all the selections or the programmed selections of the disc repeatedly.

43 PAUSE (II)
Press to stop play temporarily.

Note:
- **To continue playing, press the [PLAY (▶)] button again.**

37 DISPLAY MODE
This button changes the time data in the display window.

38 INDEX
(⟵): To start play from the desired index point, scan backward to the desired index point with this button.
(⟶): To start play from the desired index point, scan forward to the desired index point with this button.

39 OPEN/CLOSE (⏏)
Press to move the disc platter in and out.

40 PROGRAM
To program the sequence of the selections to be played, press this button while the CD player is in the standby mode. The PROGRAM indicator lights and up to 32 selections can be programmed.

41 CANCEL
Press this button to cancel a programmed tune, Each time it is pressed, one tune is cancelled.

42 RANDOM
When this button is pressed, the CD player will be ready for random play.

44 PLAY (▶)
Press to start play.

45 AUTO SEARCH/CHECK (⏮ , ⏭)
⏮ : Skips to the beginning of the previous track.
⏭ : Skips to the begining of the next track.
It can be also used to check the program order, or to cancel part of the program.

SEARCH (◀◀ , ▶▶)
◀◀ : Scans backward quickly during play.
▶▶ : Scans forward quickly during play.

HOW TO OPERATE

Preliminary Operation

1. Turn on and adjust components such as an amplifier.
2. Turn on the CD player.
3. Press the [OPEN/CLOSE (≜)] button to slide the disc platter out.
4. With its label side up, load a disc on the disc platter.
5. Press the [OPEN/CLOSE (≜)] button again to slide the disc platter in.

Notes:

- **The display shows the number of tracks and total playing time of the disc for 3 seconds.**
- **You can also close the disc platter by pressing the [PLAY ▶ / II PAUSE] button. In such a case, play starts immediately with the first selection of the disc.**

To Play From the First Selection

Press the [PLAY ▶ / II PAUSE] button.

To Play From Any Desired Selection

Designate the desired selection number by the 10 key operating buttons.

Examples:

- To assign the 25th track, press the [+10] button twice and then press the [5] button.
- To assign the 30th track, press the [+10] button twice and then press the [10] button.

The same operation can also be carried out using [(⏮, ⏭)] button.

1. Designate the desired selection number by the [(⏭)] button.
2. Press the [PLAY ▶ / II PAUSE] button.

To Stop Play Temporarily

Press the [PLAY ▶ / II PAUSE] button.

Note:

- **To continue playing, press the [PLAY ▶ / II PAUSE] button again.**

To Switch Selections During Play

- **To skip to the next selection**
  Press the [(⏭)] button.
- **To skip to the previous selection**

1. Press the [(⏮)] button once and locate the start of the current selection.
2. Immediately after step 1, press the [(⏮)] button again.

To Repeat Play

- **To repeat all the selections**

1. Press the [REPEAT ALL/1] button once.
2. Press the [PLAY ▶ / II PAUSE] button.

- **To repeat one selection**

1. Press the [REPEAT ALL/1] button twice.
2. Designate the desired selection number by the [(⏭)] buttons.
3. Press the [PLAY ▶ / II PAUSE] button.

To Stop Play

Press the [STOP/CLEAR (■)] button.

To Remove the Disc

Press the [OPEN/CLOSE (≜)] button.

To Program Play

1. Press the [STOP/CLEAR (■)] button.
2. Press the [PROGRAM] button.
3. Program any desired selections with the 10 key operating buttons.
4. Press the [PLAY ▶ / II PAUSE] button.

To Correct the Program

- **To correct all the program**

1. Press the [STOP/CLEAR (■)] button.
2. Start programming again from the beginning.

- **To correct each content of the program during programming**

1. Press the [(⏮)] button to go back to the program which needs to be canceled.
2. Press the [CANCEL] button.
3. Program a desired selection with the 10 key operating buttons.
   * Newly programmed selection is added to the last of the program.

To Check the Program

Press the [(⏮, ⏭)] button.

Notes:

- **A maximum of 32 out of 99 tunes can be selected.**
- **When the programmed play is performed, the selection number programmed first and the total playing time of programmed selections are displayed.**
- **The total playing time display is useful when making recordings from the CD player.**
- **When programming is carried out with the disc platter out, the total playing time of the programmed selections will not be displayed.**
- **When the total playing time of all the selected tunes exceeds 99 minutes and 59 seconds, the time display will be disabled and only the center bars will be displayed.**
- **Pressing the [(⏭)] button when in the programmed play causes the unit to skip to the next programmed selection.**
- **To stop temporarily during programmed play, press the [PLAY ▶ / II PAUSE] button. Press this button again to restart.**

To Random Play

1. Press the [STOP/CLEAR (■)] button.
2. Press the [RANDOM] button.
3. Press the [PLAY ▶/ II PAUSE] button.

To Cancel the part of Random Play

Select the track(s) you want to cancel with the 10 key operating buttons.

To add canceled track(s) to Random Play

1. Select the canceled track(s) you want to add to Random Play with the 10 key operating buttons or [(⏮, ⏭)] button.
2. Press the [PROGRAM] button.

To Perform Synchronized Recording

Synchronized recording is possible by connecting the cassette deck to the COMPU LINK-1/SYNCHRO terminals of the CD player through the remote cable.

1. Press the [REC (○)] and [PAUSE (II)] buttons of the cassette deck.
2. Press the [PLAY ▶ / II PAUSE] button of the CD player to start the synchronized recording.
3. Press the [STOP/CLEAR (■)] button to stop recording.

To record using DDRP

Whenever the remote cable supplied is connected to the COMPU LINK-1/SYNCHRO terminals housed in a DDRP-compatible cassette deck, DDRP recording mode is available.
By pressing the [DDRP] button, recording is automatically started as soon as the peak level search routine is completed.

To Perform Edit Recording

Auto Edit Recording
Automatically distributes and edits the tracks accommodated within the specified time to sides A and B.

1. Set a disc and press the [STOP/CLEAR (■)] button.
2. Press the [EDITING] button to light AUTO.
3. Set the recording time corresponding with the tape used, using the numerical key buttons.

Examples:

- To assign the 54 minutes, press [+10] button fifth then press the [4] button.
- To assign the 90 minutes, press [+10] button eight then press the [10] button.

When the length of tape corresponds with the time displayed then the [SIDE A/B] button should be pressed.

4. Press the [DDRP] button.
   (When automatic setting of the recording level is not required, set the cassette deck to standby (REC PAUSE) and press the CD player [PLAY ▶ / II PAUSE] button.)
   (When the synchro terminals are not connected, once the peak search is completed, set the cassette deck to record, and press the CD player [PLAY ▶ / II PAUSE] button.)

When the side A music programme has terminated, recording is automatically stopped.
If side B is also to be recorded, turn the tape over and again press the [DDRP] button. (now recording will start immediately)

Program Edit Recording
Edits the tracks accommodated within the specified time in the desired track order.
1. Set a disc and press the [STOP/CLEAR (■)] button.
2. Press the [EDITING] button to light PRGM.
3. Set the recording time corresponding with the tape used, using the numerical key buttons.

Examples:
- To assign the 54 minutes, press [+ 10] button fifth then press the [4] button .
- To assign the 60 minutes, press [+ 10] button fifth then press the [10] button.

When the length of tape corresponds with the time displayed then the [SIDE A/B] button should be pressed.

4. Select the tracks to be recorded on side A, using the numerical key buttons.
5. Press the [SIDE A/B] button.
6. Select the tracks to be recorded on side B, using the numerical key buttons.
7. Press the [DDRP] button.
(When automatic setting of the recording level is not required, set the cassette deck to standby (REC PAUSE) and press the CD player [PLAY ▶ / ❚❚ PAUSE] button.)

(When the synchro terminals are not connected, once the peak search is completed, set the cassette deck to record, and press the CD player [PLAY ▶ / ❚❚ PAUSE] button.)

When the side A music programme has terminated, recording is automatically stopped.
If side B is also to be recorded, turn the tape over and again press the [DDRP] button (now recording will start immediately).

Connecting to a cassette deck not DDRP-compatible, via the synchro terminals
Where connection is made to a cassette deck not DDRP compatible, via the synchro terminals, the recording process will be started by pressing the [DDRP] button.
In this case, the cassette deck input level will not be automatically set.
A preliminary recording should be made in order to ascertain input levels - the input level being then set up in accordance with the cassette deck instruction manual. Subsequently setting the input-level knob to the same position enables recording at the optimum level without a resetting process every time.

TROUBLESHOOTING

What appears to be a malfunction may not always be serious.
Make sure first..

Although the disc is inserted in the CD player, DISPLAY shows no data.
Is the disc placed upside down?
— Place the disc on the disc tray with its label side up.
Selections cannot be programmed.
Is the "PROGRAM" indicator lit?
— Press the [PROGRAM] button.
The remote control unit does not function.
Are the batteries fresh?
— Replace the batteries with new ones.
The sound is intermittent and is harsh to the ear.
Is the disc dirty?
— Wipe off the disc surface with a soft cloth.
Is the disc scratched?
— Replace the disc with a new one.
Is the disc warped?
— Replace the disc with a new one.

SPECIFICATIONS

System	: Compact disc player
Signal detection system	: Non-contact optical system
Number of channels	: 2 channels
Frequency response	: 2 Hz – 20,000 Hz
Dynamic range	: 100 dB (1 kHz)
Signal/noise ratio	: 112 dB (at digital 0)
Channel separation	: 106 dB (1 kHz)
Harmonic distortion	: 0.0015% (1 kHz)
Wow and flutter	: Less than measurable limit
Output level	: 2.0 Vrms (full scale)
Digital output level	: 0.5Vp-p (75Ω terminal impedance)
Number of program steps	: 32 steps
Dimensions	: 435 (W) × 102.5 (H) × 290 (D) mm (17-3/16″ × 4-1/16″ × 11-7/16″)
Weight	: 3.6 kg (8.0 lbs)
Accessories	: Signal cord (1 m • 3.28 ft) ....1 Remote cable (1 m • 3.28 ft) ....1 Remote control unit (RM-SX431U) .....1 Battery (AAA, R03, UM-4) .2

Design and specifications subject to change without notice.

POWER SPECIFICATIONS

Areas	Line Voltage & Frequency	Power Consumption
U.S.A.	AC 120 V∿ , 60 Hz	11 watts
Canada		
Continental Europe	AC 230 V ∿, 50 Hz	
U.K.	AC 240 V∿ , 50 Hz	
Australia		
Other areas	AC 115-127/220-240 V ∿ selectable, 50/60 Hz	

SPANNUNGSVERSORGUNG UND LEISTUNGSAUFNAHME

Länder	Netzspannung und Frequenz	Leistungsaufnahme
U.S.A.	120 V ∿, 60 Hz	11 watt
Kanada		
Kontinental-Europa	230 V ∿, 50 Hz	
Großbritannien	240 V ∿, 50 Hz	
Australien		
Andere Länder	Umschaltbar, 115-127/220-240 V ∿, 50/60 Hz	

CARACTERISTIQUES TECHNIQUES D'ALIMENTATION

Pays	Tension d'alimentation et fréquence	Consommation
Etats-Unis	CA 120 V ∿, 60 Hz	11 watts
Canada		
Europe continentale	CA 230 V ∿, 50 Hz	
Royaume-Uni	CA 240 V ∿, 50 Hz	
Australie		
Autres Pays	CA 115-127/220-240 V ∿ commutable, 50/60 Hz	

SPANNINGSVEREISTEN

Gebieden	Netspanning en frekwentie	Stroomverbruik
V.S.	Net 120 V ∿, 60 Hz	11 watt
Canada		
Europese Vasteland	Net 230 V ∿, 50 Hz	
Engeland	Net 240 V ∿, 50 Hz	
Australië		
Andere gebieden	Net 115-127/220-240 V ∿ instelbaar, 50/60 Hz	

ESPECIFICACIONES DE ALIMENTACION

Países	Voltaje y frecuencia	Consumo
EE. UU.	AC 120 V ∿, 60 Hz	11 vatios
Canadá		
Europa Continental	AC 230 V ∿, 50 Hz	
Reino Unido	AC 240 V ∿, 50 Hz	
Australia		
Otros Países	AC 115-127/220-240 V ∿ seleccionable, 50/60 Hz	

STRÖMFÖRSÖRJNING

Områden	Nätspänning & frekvens	Effektförbrukning
USA	∿ 120 V, 60 Hz	11 watt
Kanada		
Kontinetaleurope	∿ 230 V, 50 Hz	
Storbritannien	∿ 240 V, 50 Hz	
Australien		
Övriga länder	∿ 115-127/220-240 V (Omkopplingsbar), 50/60 Hz	